



WHITE AND YELLOW THERMOPLASTIC PAVEMENT MARKING MATERIAL MGS-91-05A

1.0 Description. This specification covers thermoplastic pavement marking material to be applied in a molten state to an asphalt roadway surface.

2.0 Materials.

2.1 Thermoplastic Compound. Thermoplastic material shall comply with AASHTO M 249 except material formulated with alkyd resin shall have a maximum specific gravity of 2.35. The pre-mix beads shall be uncoated and shall conform to AASHTO M 247, Type 1.

2.2 Primer. Primer, if required for application to an asphalt surface, shall be as recommended by the manufacturer of the thermoplastic material and furnished in the proper quantity at no additional price

3.0 Sampling and Testing.

3.1 The engineer shall have free access to the material and every facility shall be extended to him for the purpose of inspection. A sample will be taken from each lot of thermoplastic marking material presented for inspection. A lot is defined as 22,000 pounds, or fraction thereof, presented for inspection at one time regardless of the number of composition batches in the lot. A sample will consist of one 50-pound sample of material packaged in accordance with this provision. Normal sampling will be at destination.

3.2 The thermoplastic material shall be tested in accordance with AASHTO M 249 and AASHTO T 250, as applicable.

4.0 Certification and Acceptance.

4.1 The supplier shall furnish a manufacturer's certification in triplicate to the engineer, for each composition batch contained in the inspection lots certifying that the materials supplied conform to all requirements specified. The certification shall include or have attached typical results of tests for all specified requirements.

4.2 Acceptance of the material will be based on the manufacturer's certification and upon the results of such tests as may be performed by the engineer.

5.0 Packaging and Marking.

5.1 Thermoplastic material may be furnished as blocks approximately 12 x 37 x 2 inches or as granular material in bags. Either unit shall weigh approximately 50 pounds.

5.2 Granular hydrocarbon thermoplastic material may be packaged in thermally degradable bags which are designed to melt with the material and which do not adversely affect the application or performance of the thermoplastic material. The bag or packaging for alkyd thermoplastic material may be melted with the thermoplastic material provided the bag has a statement by the manufacturer printed on it to the effect that it is designed to be melted with the thermoplastic material.

5.3 Each package shall be labeled or marked with the color of the material, name of the manufacturer, date of manufacture, batch number, type of material (alkyd, hydrocarbon, or epoxy), net weight of contents, and the temperature to which the material shall be heated for application.